Figure 7A: Top Level Diagram for an Artificial Intelligence System

Set-Top-Box
- Authentication
- Five Users Profiles 703
- Mission Environments Directories
- Avatars Files 702
- Five Personalized Directories
- Speech Processing 704
- Etc.......

Router

AI Engine
On one of the Applications Servers 701
- Search Engines
- Data Mining
- Reasoning & Decision Making Engine
- Knowledge Acquisitions
- Knowledge Representation
- Etc.......

Applications
- Authentication
- Mail
- Users Personalized Data Base 703
- Shopping
- Banking
- Medical
- Billing
- Speech Processing 704
- Etc.......

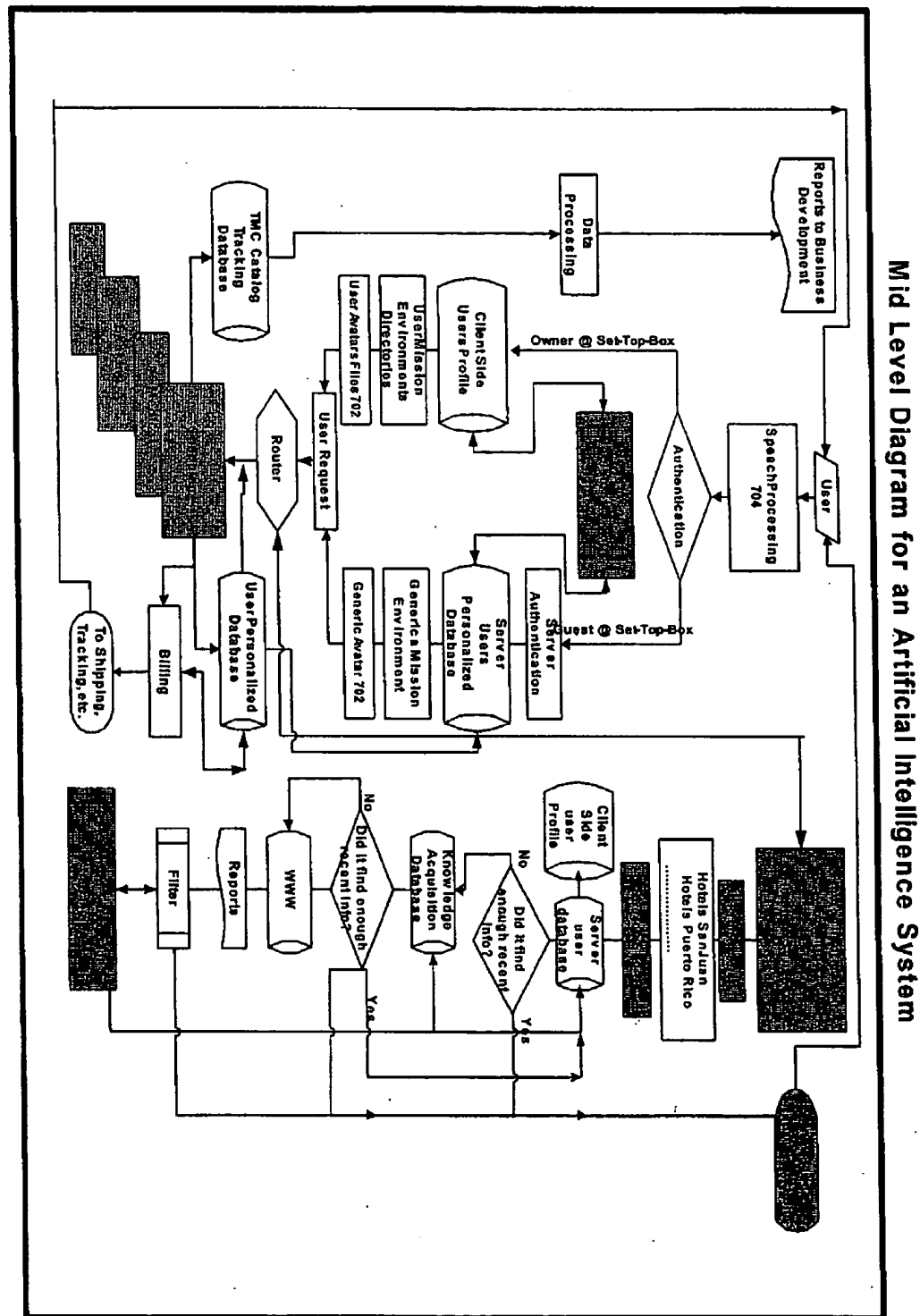## Figure 7B: Mid Level Diagram for an Artificial Intelligence System

Mid Level Diagram for an Artificial Intelligence System

Reports to Business Development

Data Processing

User

SpeechProcessing 704

Authentication

Owner @ Set-Top-Box

Guest @ Set-Top-Box

Server Authentication

TMC Catalog Tracking Database

UserMission Environments Directories

User Avatars Files 702

Client Side Users Profile

Router

User Request

Generic Avatar 702

Generic Mission Environment

Server Users Personalized Database

User Personalized Database

Billing

To Shipping, Tracking, etc.

Filter

Reports

WWW

Did it find enough recent Info?

No

Yes

Knowledge Acquisition Database

Did it find enough recent info?

No

Yes

Client Side user Profile
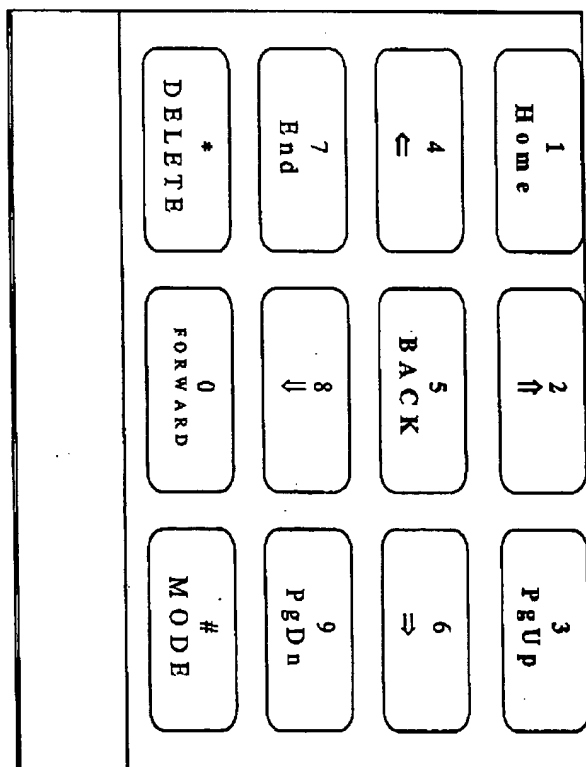
Server user database

Hotels San Juan Hotels Puerto Rico

Figure 10: A suggested Assignment of Functions for DTMF Keypad

1 Home	2 ⇨	3 PgUp
4 ⇧	5 BACK	6 ⇨
7 End	8 ⇩	9 PgDn
* DELETE	0 FORWARD	# MODE